

20010511.qrp v02_n186.qrl.20010511

Date: Fri, 11 May 2001 19:03:09 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 2186

QRP-L Digest 2186

Topics covered in this issue include:

- 1) [98015] MANHATTAN--Different Technique
by "Robert M. Kimbrell" <kimbrell@sdf.lonestar.org>
- 2) [98016] Re: This Fourier Transform stuff
by "George, W5YR" <w5yr@att.net>
- 3) [98017] Anyone familar with this RF ammeter?
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 4) [98018] low power xmtrs for sale
by jmbrown@edge.net (JERRY BROWN)
- 5) [98019] Re: Anyone familar with this RF ammeter?
by Bruce Muscolino <w6toy@erols.com>
- 6) [98020] toroids What type for QRP Balun?
by "Paul Gerhardt" <pgerhardt@hotmail.com>
- 7) [98021] Re: Fwd: Re: 'Lil RASCAL' PSK-31 interface
by Michael Rioux <mike@rioux.org>
- 8) [98022] FDIIM Prizes
by "Kenneth Evans" <w4du@mediaone.net>
- 9) [98023] Re: 2M collinear vert ant
by "Larry Wise" <lewise@txwises.com>
- 10) [98024] 6m Ringo
by "T.W." <wb5qyt@abq.com>
- 11) [98025] FS or Swap: JPS NRF-7 DSP General Purpose Noise Remover and Filter
by Dave Redfearn <n4elm@home.com>
- 12) [98026] AT Trail Activation at Hawk Mountain, GA May 12 - 13 by North Georgia QRP Club
by "Sam Billingsley" <sambillingsley@earthlink.net>
- 13) [98027] Re: MANHATTAN--Different Technique
by "TC Dufresne" <tdufres@radiks.net>
- 14) [98028] 17mtr DSB - update
by Bill Meara <n2cqr@clix.pt>
- 15) [98029] Re: Anyone familar with this RF ammeter?
by John R Kirby <n3aaz-qrp@juno.com>
- 16) [98030] [CONTEST] QRP Contest Calendar - 5/12 to 5/31
by Ken Newman <N2CQ@citnet.com>
- 17) [98031] solarqrp group
by "Mark Paley" <mpaley@wcnet.org>
- 18) [98032] Re: AT Trail Activation at Hawk Mountain, GA May 12 - 13 by North Georgia QRP Club

- by "Sam Billingsley" <sambillingsley@earthlink.net>
- 19) [98033] solar qrp group
by "Mark Paley" <mpaley@wcnet.org>
- 20) [98034] Re: MANHATTAN--Different Technique
by "E. Roswell" <eroswell@monmouth.com>
- 21) [98035] RE: NorCal toroids arrive
by "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
- 22) [98036] Wanted: St. Louis Vertical Coil from Super Antennas
by n3wt@juno.com
- 23) [98037] Re: MANHATTAN--Different Technique
by Bruce Muscolino <w6toy@erols.com>
- 24) [98038] FDIM Important Reminder
by "Tom Dooley" <tdooley@atl.mediaone.net>
- 25) [98039] Butternut vs. Force-12 vertical
by "Dave Dabay" <kd3pc@mindspring.com>
- 26) [98040] Re: toroids What type for QRP Balun?
by "Lau, Zack, W1VT" <zlau@arrl.org>
- 27) [98041] RE: toroids What type for QRP Balun?
by "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>
- 28) [98042] keys keys keys
by "Ronald A Pfeiffer" <Ronald_A_Pfeiffer@raytheon.com>
- 29) [98043] She's ALIVE!!!
by "Joel Kluender, NF9K" <nf9k@eudoramail.com>
- 30) [98044] FDIM Reminder, Bicycle Mobile QRP'ers
by "Tom Dooley" <tdooley@atl.mediaone.net>
- 31) [98045] Re: She's ALIVE!!!
by Macstein@aol.com
- 32) [98046] Re: She's ALIVE!!!
by "Mike Yetsko" <myetsko@insydesw.com>
- 33) [98047] Re: Butternut vs. Force-12 vertical
by "Paul Christensen" <paulc@mediaone.net>
- 34) [98048] solar qrp group
by "Mark Paley" <mpaley@wcnet.org>
- 35) [98049] QRP Operation from DL-land
by Thomas Kuehl <ac7a@gci-net.com>
- 36) [98050] qrp solar group
by "Mark Paley" <mpaley@wcnet.org>
- 37) [98051] RE: Losses in "450" Ohm WIndow Line
by Bill Coleman <aa4lr@arrl.net>
- 38) [98052] Re: look what came in the mail...
by Bill Coleman <aa4lr@arrl.net>
- 39) [98053] RE: MANHATTAN--Different Technique -- The "IsoPad"
by "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
- 40) [98054] Re: 2M collinear vert ant
by "Larry Wise" <lewise@txwises.com>
- 41) [98055] Butternut Vertical vs. Force 12
by "dave dabay" <kd3pc@mindspring.com>
- 42) [98056] RE: NorCal toroids arrive

by <schoon@amgt.com>
43) [98057] RE: MANHATTAN--Different Technique -- The "IsoPad"
by <schoon@amgt.com>
44) [98058] Re: MANHATTAN--Different Technique -- The "IsoPad"
by "Mike Yetsko" <myetsko@insydesw.com>
45) [98059] Re: This Fourier Transform stuff
by Stan Yarema <bg783@scn.org>
46) [98060] Re: Butternut Vertical vs. Force 12
by Jeff Stai WK6I <jstai@home.com>
47) [98061] Re: solarqrp group
by Bruce Rattray <rattray@gpfn.sk.ca>
48) [98062] RE: MANHATTAN--Different Technique -- The "IsoPad"
by <schoon@amgt.com>
49) [98063] "Drill Mill" PC board pad info
by "AI2Q Alex" <ai2q@adelphia.net>
50) [98064] Closed verse Open...
by preacher102677@juno.com
51) [98065] RE: Closed versus Open...
by "Ed Tanton" <n4xy@att.net>
52) [98066] FS/FT IBC boardmaker 912+
by "Craig A. Ferris" <cferris@aeronix.com>
53) [98067] Re: MANHATTAN--Different Technique -- The "IsoPad"
by Bruce Muscolino <w6toy@erols.com>
54) [98068] Re: MANHATTAN--Different Technique -- The "IsoPad"
by Bruce Muscolino <w6toy@erols.com>
55) [98069] Re: Closed verse Open...
by Bruce Muscolino <w6toy@erols.com>
56) [98070] Pioneer 10 signal
by Stan Yarema <bg783@scn.org>
57) [98071] FIDM Club/Vendor night
by Jim Stafford <w4qo@amsat.org>
58) [98072] Homebrew enclosure for K10 keyer
by "Brockwell, Stephen E. CECOM SEC FSSE ILEX" <brockwse@fssec.army.mil>
59) [98073] Re: Homebrew enclosure for K10 keyer
by "w8diz" <w8diz@fpqrp.com>
60) [98074] Appalachian Trail in PA on Sunday, May 13
by "Carter Craigie" <ccraigie@email.msn.com>
61) [98075] Re: Closed verse Open...
by preacher102677@juno.com
62) [98076] [MH101] C7 Question
by "Chuck Adams, K7Q0" <k7qo@earthlink.net>
63) [98077] K0GXZ - SK
by Craig LaBarge <wb3gck@yahoo.com>
64) [98078] Re: [MH101] C7 Question
by "Mike Yetsko" <myetsko@insydesw.com>
65) [98079] Re: [MH101] C7 Question
by "Mike Yetsko" <myetsko@insydesw.com>
66) [98080] Re: "Drill Mill" PC board pad info

- by "Jim Kortge, K8IQY" <jokortge@prodigy.net>
- 67) [98081] Noise and antenna tuners
by n5ib@juno.com
- 68) [98082] Re: Noise and antenna tuners
by "Howard Kraus" <K2UD@adelphia.net>
- 69) [98083] New address!!!
by "Oleg Borodin" <master72@lipetsk.ru>
- 70) [98084] Re: "Drill Mill" PC board pad info
by "Robert M. Kimbrell" <kimbrell@sdf.lonestar.org>
- 71) [98085] OT: College physics test
by lenny wintfeld <w2bvh@home.com>
- 72) [98086] Re: Pioneer 10 signal
by Tom & Roxanne <zikot@erie.net>
- 73) [98087] Re: Butternut Vertical vs. Force 12
by "Karl F. Larsen" <k5di@zianet.com>
- 74) [98088] capacitor tempco "SL" ??
by n5ib@juno.com
- 75) [98089] Re: Noise and antenna tuners
by Jeff <fantbb@yahoo.com>

Date: Thu, 10 May 2001 23:04:42 +0000 (UTC)
From: "Robert M. Kimbrell" <kimbrell@sdf.lonestar.org>
To: qrp-l@Lehigh.EDU
Subject: [98015] MANHATTAN--Different Technique
Message-ID: <Pine.LNX.4.21.0105102232480.9964-100000@sdf.lonestar.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I've been teaching the manhattan construction technique to some kids in a ham radio project class. So far we've built a 2 transistor code oscillator which also included a manhattan style key on the same board. We've also built the tick keyer and are just starting on the Charles Kitchin regen. These kids are between 7 and 12 years old and they are becoming very good builders. Punching and gluing the pads is a little tedious (and sometimes messy) for them but they're still having fun. Then, I had an idea while I was searching for circuitboard material sources. I came across a tool that cuts away copper to form an island from the existing copper that is already on the board. In other words--no punching or gluing required! The board would be self contained. This particular tool which I've only seen in the Mouser Catalog on page 444 (it's called a pad cutter) uses a pilot hole to keep the cut centered but I was thinking of designing a cutter without the pilot hole requirement. The tool would go in the chuck of a drillpress and the circuitboard would be clamped down for a nice clean cut. The soldering technique would have to change a little since the pads would no longer be raised. After I try this I'll let the list know how it worked out. (Or try it yourself--YMMV)

Bob Kimbrell AC7BN Kingman, Arizona
kimbrell@freeshell.org
<http://kimbrell.freeshell.org/>
SDF Public Access UNIX System - <http://sdf.lonestar.org>

Date: Thu, 10 May 2001 18:09:10 -0500
From: "George, W5YR" <w5yr@att.net>
To: Doug.Davies@gems3.gov.bc.ca
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [98016] Re: This Fourier Transform stuff
Message-ID: <3AFB1F96.4601AD3@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Try this, Doug - imagine how very large a watt must **really** be!

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6

Fairview, TX 30 mi NE of Dallas in Collin county EM13qe
Amateur Radio W5YR, in the 55th year and it just keeps getting better!
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

"Davies, Doug A FOR:EX" wrote:

>
> Very interesting dissertation, Paul. But I just can't get my head around
> how a signal that is one millionth of one trillionth of a watt can be
> detected by anything. That's what the strength of the latest transmission
> from Pioneer 10 was reported to be.
>
> Doug VA7DD

Date: Thu, 10 May 2001 18:14:13 -0500
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: <qrp-1@Lehigh.EDU>
Subject: [98017] Anyone familar with this RF ammeter?
Message-ID: <011601c0d9a6\$eda3fe00\$4e100a0a@rohredt2000>

I often find various meters, especially QRP ones, following me home from swap meets and such.

I thought I had about all the examples of WW2 vintage RF ammeters that were in circulation. Yesterday, a neighbor showed me one he had, that he is willing to part with, and I wonder what it might be worth.

It is a GE product about 2 1/2 inches diameter, round case. It contains a thermocouple type sensor, and the most amazing part was the rating on the lower corner of the scale, "150 X 1,000,000 ~" , which is 150 MHz.

He allowed me to bring it to the lab, and I have hooked up a kludge with the RF ma meter in series with a 2m QRP signal and a whip. It indeed senses the 2m power! Has anyone else got these in their junk box? Do they go for what most meters of that vintage sell for? This one as an inspection stamp and date of 1945.

Even as a relative indicator, this could be useful in antenna work.

Thanks and 72,

Stuart K5KVH

Date: Thu, 10 May 2001 18:27:47 -0500
From: jmbrown@edge.net (JERRY BROWN)
To: <qrp-l@Lehigh.edu>
Subject: [98018] low power xmtrs for sale
Message-ID: <000d01c0d9a8\$d4e6c300\$5b5115d0@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Some may be interested:

Surplus military low pwr transmitter-

A ruggedized 10-15 watt output 2-tube (2E26 final) cw transmitter for 3-22 mHz is available for what I think is a reasonable sum (\$125) from Fair Radio. www.fairradio.com

The rig is apparently of CIA design and was manufactured into the Viet Nam era. It is crystal controlled with a pi-network output suitable for a single end-fed wire antenna.

A small Morse key on the front panel works nicely.

The transmitter is called the T-784A/GRC-109 and it and a power supply also available can be seen in the "GROUND RADIO" section of the website site.

My transmitter and power supply work nicely and are in near new condition. They are sold as "used" and a copy of the technical manual is available from Fair and is nearly complete and very useful.

Another website with information on the history of this radio and other "clandestine" units is
www.geocities.com/saipan59

Please respond off the list with questions/comments for me.

Usual disclaimers apply.

Thanks es 72,

Jerry N4EO

Date: Thu, 10 May 2001 19:16:32 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: rohre@arlut.utexas.edu
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [98019] Re: Anyone familar with this RF ammeter?
Message-ID: <3AFB2150.A6F1232A@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Stuart,

I am pretty sure I have one in my junkbox somewhere. Back in the 1950's. before SWR bridges and forward reading wattmeters were common as hen's teeth, they were the only way you could tell if the RF was actually flowing up your fed line!

73

Date: Thu, 10 May 2001 20:46:43 -0400
From: "Paul Gerhardt" <pgerhardt@hotmail.com>

To: qrp-1@Lehigh.EDU
Subject: [98020] toroids What type for QRP Balun?
Message-ID: <F23UuEhjJ8uT6Ssuot0000031e8@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Could someone tell me or direct me to info as to what type of toroids core to use for a QRP (5watts) HF Balun mostly for 40-10M use?

TIA and 73 de Paul K3PG
Centreville, MD

Get your FREE download of MSN Explorer at <http://explorer.msn.com>

Date: Fri, 11 May 2001 00:48:14 +0000
From: Michael Rioux <mike@rioux.org>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [98021] Re: Fwd: Re: 'Lil RASCAL' PSK-31 interface
Message-ID: <5.0.2.1.0.20010511004620.00b08510@pop.ne.mediaone.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I used Buck's interface on PJ8 to make many contacts. "Works fine lasts a long time."
I don't know how he does it for the price!
73, Mike W1USN

Date: Fri, 11 May 2001 01:34:43 +0100
From: "Kenneth Evans" <w4du@mediaone.net>
To: "QRP-1 Discussion" <qrp-1@Lehigh.EDU>, "GQRP" <GQRP@yahoogroups.com>
Subject: [98022] FDIM Prizes
Message-ID: <013501c0d9b2\$2f90d1c0\$6501a8c0@atl.mediaone.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The prize donations are starting to arrive for FDIM. Two very lucky people are going to go home from FDIM 2001 with Elecraft K1 Transceivers. Correct! We will be giving away two K1s from Elecraft. Thanks to Eric, Wayne and all at Elecraft!

These are a few of the prizes, we will be announcing more of them over the next few days. QRP ARCI really appreciates the donations from all of our vendors! See you at Dayton!

72/3,

Ken W4DU

QRP ARCI #696, GQRP, NOGA, NORCAL, ARRL-Life

Date: Fri, 11 May 2001 01:55:37 +0100
From: "Larry Wise" <lewise@txwises.com>
To: "qrp" <qrp-1@lehigh.edu>
Subject: [98023] Re: 2M collinear vert ant
Message-ID: <200105110155.UAA12944@aoot.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Thanks to all who responded to my request.

Now have several references and one web site..

thanks again,

Larry KA5T
Georgetown, Texas

Date: Thu, 10 May 2001 19:50:40 -0600
From: "T.W." <wb5qyt@abq.com>
To: <qrp-1@lehigh.edu>
Subject: [98024] 6m Ringo
Message-ID: <MABBIKAEJKMHLIDDGMCKAENACIAA.wb5qyt@abq.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gang,

Anyone have docs for the above antenna? Will pay all costs for a manual copy.

72, Tom WB5QYT...."Have spud will travel!"

Date: Thu, 10 May 2001 22:13:34 -0500
From: Dave Redfearn <n4elm@home.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [98025] FS or Swap: JPS NRF-7 DSP General Purpose Noise Remover and Filter
Message-ID: <3AFB58DE.75ECCE51@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

For Sale:

JPS NRF-7 DSP
General Purpose Noise Remover and Filter

Description:

The NRF-7 is an audio processor designed to enhance the quality of received voice, CW, and Data transmissions by providing exceptional bandpass, white noise reduction, and heterodyne removal using Digital Signal Processing (DSP).

The filter modes are CW narrow, CW wide, SSB narrow, SSB wide, Notch filter, Peak Filter, Notch plus Peak, SSB wide filter plus Notch, SSB narrow filter plus Notch, and DATA filter.

The unit measures about 1.7" high x 6.5" wide x 5.1" deep.
Operates on +11 to +16 Volts DC.

Condition:

There are minor wear marks and scratches on the top of the case. The front panel is clean. Overall the equipment is a 8 or 9 for cosmetics. Everything works normally. This equipment is sold "AS-IS" but not DOA. There is NO warranty. Comes with manual.

Asking \$100.00 OBO + shipping from TX.

OR swap for/towards a CW transceiver for 40 or 20 Meters
like a DSW-40, DSW-20, SST, Wilderness, OHR, MFJ Cub, etc...

73 - Dave

=====
Dave Redfearn, ARS N4ELM, McKinney, TX

Email: n4elm@NOJUNKhome.com (to reply, remove NOJUNK)
QRL? de N4ELM/qrp

Date: Thu, 10 May 2001 23:41:52 -0400
From: "Sam Billingsley" <sambillingsley@earthlink.net>
To: <QRP-L@Lehigh.EDU>, "_NOGAQRP_reflector" <nogaqrp@qth.net>, "atrail-l_submit" <atrail-l@Lehigh.EDU>
Subject: [98026] AT Trail Activation at Hawk Mountain, GA May 12 - 13 by North Georgia QRP Club
Message-ID: <007801c0d9cc\$51d2d020\$47532042@sbillingsley>

The North Georgia QRP Club will be active at Hawk Mountain, GA on the AT about 8 miles north of the southern Terminus (Springer Mtn).

We will have 4-6 QRPers active at various times and bands during the period beginning early Friday afternoon May 11 until breaking camp Sunday Morning May 13.

This will a great opportunity for folks to get GA on multiple bands with QRP QSOs. This will not be operated in contest mode and we would like to have casual QSOs if possible. :-)

We are planning several special world record attempts from GA Sierras during this trip. One on 20 meters with a VK2 with a GA Sierra and the second using the GA Sierra on 6 mtrs to communicate to whoever can hear us on 50.125 CW.

Equipment lineup:

K1 (CW 20/40)
K2 (all bands CW)
INDEX QRP+ (all bands CW/SSB)
Ga Sierra (on 80/40/30/20/150/10/6)
TT509
(and other rigs to be named later)

Antennas:

Parking Lot Portable Vertical (40/30/20/15/10)
W3EDP 87ft with counterpoise (we'll try several types)
44ft Doublet with open wire feeders at 32 ft (ZM-2 or BLT tuner)
3 wavelength long wire at 32 feet (for the 20 mtr VK2 attmpt 8dB+ gain)
folded dipole with 300 ohm TV twin lead (6 mtrs) at 30 ft HB BAL Tuner
(many other possibilities during the visit)

Power:

Gell Cells
Solar Panels

We camping out for two nights and have at least one telescope to look at the wide open space.

Weather: Expected to be very good , with slight chance of light showers on Sat.

We will use the club station call sign NQ4RP for many of these calls. Some individuals trying for personal QRP WAS events may used their own call signs.

We expect to do some hiking too but we have enough operators to keep the rigs warm.

BTW Here is an interesting writeup on Hawk Mtn, GA the camp site. Our friends from VK-land sent it to us. I hope the troops don't have a practice assault schedule this weekend.

Check it out at:

<http://www.gawg.cap.gov/winghq/frostbite/2000/HawkMtn.htm>

72's

Sam Billingsley AE4GX North Georgia QRP Club

Date: Fri, 11 May 2001 04:56:31 +0100
From: "TC Dufresne" <tdufres@radiks.net>
To: <kimbrell@sdf.lonestar.org>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [98027] Re: MANHATTAN--Different Technique
Message-ID: <002701c0d9ce\$5e76aca0\$0501a8c0@computer1>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I still don't see why you need all these techniques to get the islands. Here is what worked for me, and costs nothing extra for devices or punches.

- 1) Get PCB
- 2) Score PCB with x-acto or carpet knife-use 1/4" cuts, do one at a time.
- 3) Put on leather gloves
- 4) Put 4" PCB over edge of table/metal table. Must be "sharp" edge, not rounded corner
- 5) Briskly "snap" off 1/4 in strips by pushing quickly straight down
- 6) Use sharp "dykes" to cut into 1/4" by 1/4" squares

Tres cool, non?

There ya have it. Works like a champ, and you can make 'em up ahead of time by the bazillions at no cost... My kinda' project!!

Just my two cents....

BTW, Kitchen's regen is great project..

Tom

----- Original Message -----

From: "Robert M. Kimbrell" <kimbrell@sdf.lonestar.org>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Friday, May 11, 2001 0:04 AM

Subject: MANHATTAN--Different Technique

> I've been teaching the manhattan construction technique to some kids in a
> ham radio project class. So far we've built a 2 transistor code
> oscillator which also included a manhattan style key on the same board.
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> tedious (and sometimes messy) for them but they're still having fun.
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> I was thinking of designing a cutter without the pilot hole requirement.
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> to change a little since the pads would no longer be raised. After I try
> this I'll let the list know how it worked out. (Or try it yourself--YMMV)

>

> Bob Kimbrell AC7BN Kingman, Arizona

> kimbrell@freeshell.org

> <http://kimbrell.freeshell.org/>

> SDF Public Access UNIX System - <http://sdf.lonestar.org>

>

Date: Fri, 11 May 2001 07:18:47 -0400
From: Bill Meara <n2cqr@clix.pt>
To: qrp-1@Lehigh.EDU
Cc: homebrew@qth.net
Subject: [98028] 17mtr DSB - update
Message-ID: <3.0.6.16.20010511071847.2def7372@pop.clix.pt>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Thanks to all who've provided advice and encouragement.

I've taken care of the low L0 level problem. I now have an emitter follower and a BJT Class A amp between the Colpitts VX0 and the L0 port of the balanced modulator. In the process I learned that the L0 port is indeed around 50 ohms. With the new circuit I'm very close to the 1 volt rms (with the L0 connected to the L0 port on the balanced modulator) called for by W1FB.

I hadn't anticipated having to use three transistors for the L0 (VX0) so I didn't have enough room on the board for the class A amp. But the flexibility of the Manhattan technique saved the day! I'd planned on using copper clad board to build the shield box for the VX0, so I just built the class A amp for the VX0 on the inside of the back wall of the box! (So this VX0 problem really did drive me up the wall!)

The null control on the balance modulator nulls out the carrier very nicely (even with the VX0 unshielded -- I hope to get more carrier suppression when I have the VX0 fully in the box). And I can hear the DSB signal on my RX when I speak into the mike.

Now I'm looking for linear amplifier circuits. I like the 15 watt linear Amplifier using two NPN transistors in push pull on page 66 of "Solid State Design for the Radio Amateur." With .375 watts in it promises 15 watts out using 24 volts. I'm thinking that I can run it with 12 volts and stay within QRP limits. I like the transformers used in this circuit -- nothing exotic, just stacked FT-50-61 toroids.

73 de CU2JL (aka N2CQR)
Bill Meara
Sao Miguel Island,
The Azores, Portugal
<http://planeta.clix.pt/n2cqr>

Date: Fri, 11 May 2001 06:19:15 -0400

From: John R Kirby <n3aaz-qrp@juno.com>
To: rohre@arlut.utexas.edu, qrp-1@Lehigh.EDU
Subject: [98029] Re: Anyone familar with this RF ammeter?
Message-ID: <20010511.062244.-157835.0.n3aaz-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

I often find various 'stuff' following me home too.

Yes, I have one with RF thermocouple built in and
you should see what else I found while
searching my long forgotten bone yard . . .

A few old keys,
one with contacts BIG enough to carry 'amps.

Imagine cathode keying several 'amps?
Today OSCA (spell) would require rubber gloves, ear plugs and a welders
hood.

Also found a GE meter calibrated in Foot Candles, color and angle
corrected yet,
around fifty vintage, maybe earlier?

RE: Cost ? Today . . . priceless . . .

00TC

John
N3AAZ
FM 19 xa

On Thu, 10 May 2001 18:14:13 -0500 "Stuart Rohre"
<rohre@arlut.utexas.edu> writes:
>I often find various meters, especially QRP ones, following me home
>from swap meets and such.
>
>I thought I had about all the examples of WW2 vintage RF ammeters that
>were in circulation. Yesterday, a neighbor showed me one he had, that
he
>is willing to part with, and I wonder what it might be worth.
>
>It is a GE product about 2 1/2 inches diameter, round case. It
>contains a thermocouple type sensor, and the most amazing part was the
rating on
>the lower corner of the scale, "150 X 1,000,000 ~" , which is 150 MHz.

>
>He allowed me to bring it to the lab, and I have hooked up a kludge
>with the RF ma meter in series with a 2m QRP signal and a whip. It
indeed
>senses the 2m power! Has anyone else got these in their junk box? Do
they go
>for what most meters of that vintage sell for? This one as an
inspection stamp
>and date of 1945.
>Even as a relative indicator, this could be useful in antenna work.
>
>Thanks and 72,
>Stuart K5KVH
>

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<http://dl.www.juno.com/get/tagj>.

Date: Fri, 11 May 2001 06:57:40 -0400

From: Ken Newman <N2CQ@citnet.com>

To: epaqrp-l@lehigh.edu, QRP-L@lehigh.edu, njqrp@njqrp.org, n9avg@amsat.org

Subject: [98030] [CONTEST] QRP Contest Calendar - 5/12 to 5/31

Message-ID: <3.0.6.32.20010511065740.008b9500@mail.citnet.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

~~~~~  
QRP CONTEST CALENDAR

May 12-31, 2001

~~~~~  
Nevada QSO Party (All)

May 12 - 0000z to May 13 - 0600z

Rules: <http://home.sol.no/~janalme/rules/qsonv.txt>

"Work NV Counties"


~~~~~  
Volta WW RTTY Contest

May 12 - 1200z to May 13 - 1200z

Rules: <http://home.sol.no/~jana1me/rules/avolta.txt>

"Honoring Electical Discoverer ALESSANDRO VOLTA"

~~~~~

Oregon QSO Party (All)

May 12 - 1400z to May 13 - 0200z

Rules: <http://www.empnet.com/codxc/>

"Work OR Counties"

~~~~~

FISTS Spring Sprint (CW) ... QRP Category

May 12 - 1700z to 2100z

Rules: <http://www.fists.org/sprints.html>

"WHEN YOU'VE WORKED A FIST, YOU'VE WORKED A FRIEND"

~~~~~

CQM International DX Contest (CW/SSB/SSTV) ... QRP Category

May 12 - 2100z to May 13 - 2100z

Rules: http://www.mai.ru/~crc/cq-m/cqm_ru10.txt

"Peace to the world"

~~~~~

AND LATER.....

~~~~~

Dayton Hamvention (QRP Event - FDIM)

May 18-20

Info: <http://www.hamvention.org/>

~~~~~  
European Sprint (CW)

May 19 - 1500z to 1859z

Rules: <http://home.sol.no/~janalme/htmlrules/eusprint.html>

"Work Europeans"

~~~~~  
Baltic Contest (CW/SSB) (80 Meters)

May 19 - 2100z to May 20 - 0200z

Rules: <http://home.sol.no/~janalme/rules/baltic.txt>

"Promote Radio Sport. Work anyone"

~~~~~  
Anatolian RTTY WW Contest (Turkey)

May 26 - 0000z to May 27 - 2400z

Rules: <http://www.sk3bg.se/contest/anrywwc.htm>

"RTTY All Bands"

~~~~~  
CQWW WPX Contest (CW) ... QRP Category

May 26 - 0000z to May 27 - 2400z

Rules: <http://ourworld.compuserve.com/homepages/n8bjq/>

"Great DX"

~~~~~

QRP ARCI Hoot Owl Sprint (CW) ... QRP Contest!

May 27 - 2000 to 2400 (Local Time)

Rules: <http://personal.palouse.net/rfoltz/arci/hoot.htm>

"QRP Fun"

~~~~~

Michigan QRP Memorial Day Sprint (CW) ... QRP Contest!

May 28 - 2300z to May 29 - 0300z

Rules: <http://www.qsl.net/k8dd/miqrp/rules01.htm>

"Bonus Points on HB Equipment"

~~~~~

Please foreward the contest info you sponsor to N2CQ@ARRL.NET and we will post it and give it more publicity.  
Anyone may use this "QRP Contest Calendar" for your website, newsletter, e-mail list or other media as you choose.  
(Include a credit to the source of this material of course.)

|                   |                                                                                                             |
|-------------------|-------------------------------------------------------------------------------------------------------------|
| 72 de             | **** QRP Contest Calendar ****                                                                              |
| Ken Newman - N2CQ | <a href="http://www.njqrp.org/data/contesting.html">http://www.njqrp.org/data/contesting.html</a>           |
| N2CQ@ARRL.NET     | <a href="http://www.n3epa.org/Pages/Contest/contest.htm">http://www.n3epa.org/Pages/Contest/contest.htm</a> |
|                   | <a href="http://www.qsl.net/cqrp/contests.html">http://www.qsl.net/cqrp/contests.html</a>                   |

-----

Date: Fri, 11 May 2001 11:06:59 +0100  
From: "Mark Paley" <[mpaley@wcnet.org](mailto:mpaley@wcnet.org)>  
To: "Low Power Radio Group" <[qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)>  
Subject: [98031] solarqrp group  
Message-ID: <[PGEPLCEGJDMJPHIGJMDGEEHOCKAA.mpaley@wcnet.org](mailto:PGEPLCEGJDMJPHIGJMDGEEHOCKAA.mpaley@wcnet.org)>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I signed up for the solar power group on Yahoo.com but have not figured out how to access it. Any information would be appreciated.

73 de  
Mark Paley--KF8KL--  
K1 #117, K2 #250 QRP-L #1899  
<http://wcnet.org/~mpaley>

-----  
Date: Fri, 11 May 2001 07:12:19 -0400  
From: "Sam Billingsley" <sambillingsley@earthlink.net>  
To: "Bill ROWLETT" <kc4atu@yahoo.com>  
Cc: "atrail-l\_submit" <atrail-l@Lehigh.EDU>, <QRP-L@Lehigh.EDU>,  
"\_NOGAQRP\_reflector" <nogaqrp@qth.net>  
Subject: [98032] Re: AT Trail Activation at Hawk Mountain, GA May 12 - 13 by  
North Georgia QRP Club  
Message-ID: <002e01c0da0b\$3eca13a0\$02542042@sbillingsley>

Bill thanks for the interest.

I'll try :  
Friday 8pm EDST  
Sat 10am EDST  
Sat 1pm EDST  
Sat 7pm EDST

I'll be using a dipole at 30 ft and about 600 mW heading NNE.

AD4J Jim and W3IRZ Mike and W1EDJ/4 Bob in GA will be listening too.

Sam AE4GX

----- Original Message -----  
From: "Bill ROWLETT" <kc4atu@yahoo.com>  
To: <sambillingsley@earthlink.net>  
Sent: Friday, May 11, 2001 6:42 AM  
Subject: Re: AT Trail Activation at Hawk Mountain, GA May 12 - 13 by North  
Georgia QRP Club

> Interested in the six meter activity, will you be on  
> the band the entire time and if not, do you know the

> times. I run a folded dipole also which is a little  
> over 30 feet (inside my attic, 3 story townhouse).  
> Will check the band from here in northern Virginia and  
> will call you during friday night and saturday  
> afternoon and night.  
>  
> Good luck and have fun.  
>  
> 73 Bill KC4ATU

-----  
Date: Fri, 11 May 2001 11:24:42 +0100  
From: "Mark Paley" <mpaley@wcnet.org>  
To: "Low Power Radio Group" <qrp-l@lehigh.edu>  
Subject: [98033] solar qrp group  
Message-ID: <PGEPLCEGJDMJPHIGJMDGAEHPCKAA.mpaley@wcnet.org>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Evidently I only signed up for a Yahoo account that will allow me to access this group. I understand now that I have to request admission to the group since it appears that it is an unlisted group. So, whoever is incharge of signing up folks, please sign me up.

Thanks,

73 de  
Mark Paley--KF8KL--  
K1 #1117, K2 #250 QRP-L #1899  
<http://wcnet.org/~mpaley>

-----  
Date: Fri, 11 May 2001 07:34:27 -0400  
From: "E. Roswell" <eroswell@monmouth.com>  
To: qrp-l@Lehigh.EDU  
Subject: [98034] Re: MANHATTAN--Different Technique  
Message-ID: <3AFBCE43.14C4737C@monmouth.com>

MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

This is a great idea. The G-QRP Club site has a Tech Note by G4WIF at:  
<http://www.btinternet.com/~g4wif/gqrp.htm>  
which shows how to make a tool. I was thinking about attempting it, but  
now I think I'll look up the tool in Mouser.  
73, Ed,  
K2MGM

-----  
Date: Fri, 11 May 2001 07:44:14 -0400  
From: "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [98035] RE: NorCal toroids arrive  
Message-ID: <078F21595FA7D411B87B00805FA728E64A472E@atlexc02ntms.h boc.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

They arrived in north Georgia yesterday. 8-)

Thanks NORCAL group

Jerry  
W3CDE

-----  
Date: Fri, 11 May 2001 07:56:00 -0400  
From: n3wt@juno.com  
To: qrp-l@Lehigh.EDU  
Subject: [98036] Wanted: St. Louis Vertical Coil from Super Antennas  
Message-ID: <20010511.075601.-305385.0.n3wt@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Wanted: St. Louis Vertical Coil as made by Vern of Super Antennas. The  
80-10 meter coil or the 40-10.

John, N3WT  
n3wt@juno.com

-----  
Date: Fri, 11 May 2001 07:57:13 -0400  
From: Bruce Muscolino <w6toy@erols.com>  
To: tdufres@radiks.net  
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [98037] Re: MANHATTAN--Different Technique  
Message-ID: <3AFBD399.9118702@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

TC,

Manhattan construction is a technique, not a set of tools. What you do works just fine. Using a hole punch also works just fine. There is no difference in the two. Both ways allow for rapid building of prototypes.

73

-----  
Date: Fri, 11 May 2001 08:18:34 -0400  
From: "Tom Dooley" <tdooley@atl.mediaone.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [98038] FDIM Important Reminder  
Message-ID: <01b601c0da14\$80eeab20\$84265818@atl.mediaone.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

FDIM is just around the corner. There is less than 6 days until the FDIM Seminars start! Are you ready to go or what?

I wanted to point out a couple of reminders:

1. The Banquet has been moved to Saturday night, starting at 7:00 PM in the Ballroom.
2. Vendors Night will be Friday night, starting at 8:00 PM in the Ballroom.
3. The Authors' Social will be Thursday night at 8:00 PM in the Miambsburg/Centerville Rooms.

I will be looking forward to meeting all of you in a very short couple of days!

72 de K4TJD Tom

-----  
Date: Fri, 11 May 2001 08:25:02 -0400  
From: "Dave Dabay" <kd3pc@mindspring.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [98039] Butternut vs. Force-12 vertical  
Message-ID: <004f01c0da15\$6bb27600\$0ffa9e9@ma1s>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Guys and Gals,

After 15 years and numerous moves my Butternut vertical has finally done it's due. I am in the market for a new vertical, something inconspicuous, but efficient. I would like first-hand experience with either. I have the literature for both, and am only interested in comparing these two antennas. Private email is best unless you think the whole group is really interested.

thanks in advance

dave

Dave Dabay KD3PC QRP-L #365

-----  
Date: Fri, 11 May 2001 08:21:09 -0400  
From: "Lau, Zack, W1VT" <z1au@arrl.org>  
To: "'qrp-l@Lehigh.EDU'" <qrp-l@Lehigh.EDU>  
Subject: [98040] Re: toroids What type for QRP Balun?  
Message-ID: <125490A005E3D3118C9C00805FC743CC016B9E40@KAHLESS>  
MIME-Version: 1.0



Content-Type: text/plain;  
charset="iso-8859-1"

How about an FT-140-43?--Zack W1VT

-----  
Date: Fri, 11 May 2001 08:28:49 -0400  
From: "Lofstead, Jerry" <Jerry.Lofstead@itb.mckhboc.com>  
To: "'zlau@arrl.org'" <zlau@arrl.org>, Low Power Amateur Radio Discussion <qrp-  
l@Lehigh.EDU>  
Subject: [98041] RE: toroids What type for QRP Balun?  
Message-ID: <078F21595FA7D411B87B00805FA728E64A4732@atlexc02ntms.h boc.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

That is large enough for a KW... Sure would work for QRP...

Jerry  
W3CDE

-----Original Message-----  
From: Lau, Zack, W1VT [mailto:zlau@arrl.org]  
Sent: Friday, May 11, 2001 5:21 AM  
To: Low Power Amateur Radio Discussion  
Subject: Re: toroids What type for QRP Balun?

How about an FT-140-43?--Zack W1VT

-----  
Date: Fri, 11 May 2001 08:33:04 -0400  
From: "Ronald A Pfeiffer" <Ronald\_A\_Pfeiffer@raytheon.com>  
To: qrp-l@Lehigh.EDU  
Subject: [98042] keys keys keys  
Message-ID: <0F01C5238F.27A3E085-0N85256A49.004465F8@and.us.ray.com>  
MIME-Version: 1.0  
Content-type: text/plain; charset=us-ascii

I have both models of Richard Meiss (WB9LPU) key/paddle.

The pictures referenced below are at <http://wcnet.org/~mpaley>

My Parkwood Paddle is similar to the lower left picture and  
my Parkwood Pup (staright key) is similar to the lower right  
picture. I can not say enough about the craftsmanship.

They are designed perfectly for my hand. I recommend these keys and paddles and as usual I have no financial interest in his business--just a very satisfied customer!

R0n - N1ZSW

-----  
Date: Fri, 11 May 2001 07:38:35 -0500  
From: "Joel Kluender, NF9K" <nf9k@eudoramail.com>  
To: qrp-l@lehigh.edu  
Subject: [98043] She's ALIVE!!!  
Message-ID: <E0IBBICEPDJKDBAA@shared1-mail.whowhere.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Language: en  
Content-Transfer-Encoding: 7bit

All,

I am happy to report that K2 #1874 has successfully passed 40M transmit align tests! If it weren't for that nasty thing called "work" I would be at home now finishing the other bands.

Is there an e-mail text equivalent for maniacal laughter???

73/72,  
Joel N0KR  
---  
Joel Kluender, N0KR  
870 Prairie Street S.  
Shakopee, MN 55379

"All men are like grass, and all their glory is like the flowers of the field; the grass withers and the flowers fall, but the word of the Lord stands forever." (I Peter 1:24-25)

Join 18 million Eudora users by signing up for a free Eudora Web-Mail account at <http://www.eudoramail.com>

-----

Date: Fri, 11 May 2001 08:38:11 -0400  
From: "Tom Dooley" <tdooley@atl.mediaone.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [98044] FDIM Reminder, Bicycle Mobile QRP'ers  
Message-ID: <01c601c0da17\$3d880040\$84265818@atl.mediaone.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Another important reminder for an event going on starting Saturday, May 12. The event is the QRPedal expedition to Dayton. Ken VE3ELA, Russ KB8U, and John VE3JC will be the bikers. Be sure to visit the web page mentioned below for all of the details.

I have attached John's message on the QRPedal expedition to Dayton. Please work these guys on their trip and send your QSLs to me. QRP-ARCI is acting as QSL Manager for this exciting bike trip so be sure to work them and get the card for your wall!

My information is:

Tom Dooley, K4TJD  
4942 Dock Court  
Norcross, GA 30092

72 de K4TJD Tom

----- Original Message -----

From: "VE3JC - John C" <jbcumming@wwdc.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Sent: Thursday, April 26, 2001 0:08 AM  
Subject: CQ Bicycle Mobile QRP'ers

This is an update on a couple of items that may be of interest to bicycle mobile qrp operators:

# 1. The 2001 QRPedal-expedition to Dayton ("FDIM or Bust!")

Ken VE3ELA, Russ KB8U, and I are getting very excited about our upcoming ride to Dayton. Starting on the saturday before Dayton, we will cycle across Southern Ontario, invade the US via the Sunday evening Lake Erie ferry (Leamington, Ontario > Sandusky, Ohio) and arrive in Dayton QRP-central

the day before  
FDIM.

We will certainly hope to have the chance to work many of you from the road, or from the evening campsite, or even from the ferry! And of course we look forward to seeing everyone at FDIM and at the Sunday BMHA forum. For more details on our plans (and for QSL info, thanks to QRP-ARCI) see <http://www.geocities.com/ve3jc/fdimor.htm>

# 2. Email reflector for Bicycle Mobile Hams!

The BMHA discussion list on yahoogroups has had a lot of interesting discussion regarding antennas, rig mounting, hf operation, etc., so you should certainly subscribe if you are interested in bicycle mobiling. Info can be found at the BMHA website ( <http://www.lafetra.com/bmha/> )

Vy 73 & 72, John VE3JC

|            |  |                                                                               |
|------------|--|-------------------------------------------------------------------------------|
|            |  | VE3JC John Cumming                                                            |
| Q          |  | London, ON CANADA                                                             |
| /\         |  | jbcumming@wwdc.com                                                            |
| @` /<----- |  | hf qrp cw bicycle mobile                                                      |
| (*) \(*)   |  | <a href="http://www.geocities.com/ve3jc/">http://www.geocities.com/ve3jc/</a> |

-----  
Date: Fri, 11 May 2001 08:41:34 EDT  
From: Macstein@aol.com  
To: nf9k@eudoramail.com, qrp-1@lehigh.edu  
Subject: [98045] Re: She's ALIVE!!!  
Message-ID: <97.151e7b30.282d37fe@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

In a message dated 5/11/2001 8:39:48 AM Eastern Daylight Time,  
nf9k@eudoramail.com writes:

> Is there an e-mail text equivalent for maniacal laughter???

"Muahahahahahahah!" is the text we use on the Flying Pigs reflector.

-MAC-  
AF4PS  
K2 #643

-----  
Date: Fri, 11 May 2001 08:56:12 -0400  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: <n9k@eudoramail.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [98046] Re: She's ALIVE!!!  
Message-ID: <00d801c0da19\$cbff07e0\$6b01a8c0@INSYDENT>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

> I am happy to report that K2 #1874 has successfully passed 40M  
transmit align tests! If it weren't for that nasty thing called "work" I  
would be at home now finishing the other bands.

>  
> 73/72,  
> Joel N0KR

Geesh... Where are your priorities??

What do you think sick days are for? Being sick???

Mike N1DVJ  
K2# 1058

-----  
Date: Fri, 11 May 2001 09:04:08 -0400  
From: "Paul Christensen" <paulc@mediaone.net>  
To: <kd3pc@mindspring.com>, "Low Power Amateur Radio Discussion" <qrp-  
l@Lehigh.EDU>  
Subject: [98047] Re: Butternut vs. Force-12 vertical  
Message-ID: <004a01c0da1a\$e0821440\$6401a8c0@se.mediaone.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Dave:

You may want to specify the model of the Butternut and Force12 verticals you  
are considering. There are several models from both manufacturers.  
However, I've been using a new Force12 Sigma 40 vertical for several months

and I've been very pleased with its performance. The Sigma replaced an eight year old GAP Voyager. The Voyager was a good antenna on 40 & 80, but absolutely awful on 160 and 20-meters. The Sigma design is very simple, easy to assemble, and easy to maintain; the base pivots after removing one bolt. I can single-handedly raise and lower this antenna. The GAP required several people and a lot of meditating before it was lowered for maintenance. Prior to the GAP, I had the low-band Butternut vertical. Since the Sigma is a monoband antenna for 40 meters, I can only gauge relative performance on this band. After several months of operating, I am confident that the Sigma is outperforming the other two antennas...at least at my location. I live in a deed-restricted neighborhood, so it was essential that I try to hide the antenna as best as possible. Except for the fiberglass insulators, the entire antenna was painted with flat-black, high-temperature-rated, Rustoleum charcoal grill paint. This paint nearly dries on contact and is perfect for this application/ Take a look at the photos below. I think you'll find the Sigma to be a very "stealthy" antenna.

<http://www.zing.com/picture/p03a13e3852b3b681d683192b11dcb82d/febb34b1.jpg>

<http://www.zing.com/picture/p8d70bfcd05b0b7f5ba414a2f6fef4ba6/febb34ab.jpg>

<http://www.zing.com/picture/p8a4d2490a83967c636bac1d8e1723b33/febb34bb.jpg>

<http://www.zing.com/picture/p98548c334a594640258d48e24d797a3f/febb34c3.jpg>

I am now considering the placement of a U.S. Tower MDA-850 85-foot tubular mast just behind the fence. My back yard forms the perimeter of the country club and the back property owner is not subject to covenants or deed restrictions outside of county zoning regulations. If anyone has any experience with the installation of a USTower MDA-850, I would like to hear from you. Thanks!

-Paul, W9AC

----- Original Message -----

From: "Dave Dabay" <kd3pc@mindspring.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Friday, May 11, 2001 8:25 AM

Subject: Butternut vs. Force-12 vertical

>

>

> Guys and Gals,

>

> After 15 years and numerous moves my Butternut vertical has finally done it's

> due. I am in the market for a new vertical, something inconspicuous, but  
> efficient. I would like first-hand experience with either. I have the  
> literature for both, and am only interested in comparing these two  
antennas.  
> Private email is best unless you think the whole group is really  
interested.  
>  
> thanks in advance  
>  
> dave  
>  
>  
>  
> Dave Dabay KD3PC QRP-L #365  
>  
>

-----  
Date: Fri, 11 May 2001 13:15:54 +0100  
From: "Mark Paley" <mpaley@wcnet.org>  
To: "Low Power Radio Group" <qrp-l@lehigh.edu>  
Subject: [98048] solar qrp group  
Message-ID: <PGEPLCEGJDMJPHIGJMDGCEIECKAA.mpaley@wcnet.org>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Thanks to everyone for responding to my question of signing up. I am now a  
member of the group and am sure I will further my interests in powering my  
qrp rigs via PV panels.

73 de  
Mark Paley--KF8KL--  
K1 #117, K2 #250 QRP-L #1899  
<http://wcnet.org/~mpaley>

-----  
Date: Fri, 11 May 2001 06:21:57 -0700  
From: Thomas Kuehl <ac7a@gci-net.com>

To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [98049] QRP Operation from DL-land  
Message-ID: <3AFBE775.8962298D@gci-net.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I am leaving Phoenix on Saturday, for Frankfurt, Germany.  
Arriving there on Sunday, I hope to have some wires  
suspended in my friend's garden no later than Monday or  
Tuesday evening (my friend is an inactive ham and does know  
of my plans to reactivate his QTH).

My trusty K2 is making the trip as well as a variety of  
wires that can be configured in different antenna  
arrangements. Initially, I plan to be on 20 meters, with  
hopes for 40 through 15 meters later, where I will frequent  
the QRP frequencies. On May 19th, I plan to participate in  
the European Sprint in the QRP class.

I realize Germany isn't exactly rare DX, but if you want to  
try for a QRP QSO across the pond; listen for me operating  
as DL/AC7A this coming week.

Regards, Thomas - AC7A (Tucson)

-----

Date: Fri, 11 May 2001 14:17:14 +0100  
From: "Mark Paley" <mpaley@wcnet.org>  
To: "Low Power Radio Group" <qrp-1@lehigh.edu>  
Subject: [98050] qrp solar group  
Message-ID: <PGEPLCEGJDMJPHIGJMDGIEIFCKAA.mpaley@wcnet.org>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

This is for Ron Polityka (spelling?)

Ron,

I unsubscribed from the group and have sent another subscription form. My  
goal is to subscribe to this group but do it through my provided rather than  
signing up for yahoo as I previously did. Hope this isn't a problem, and  
sorry for unnecessary bandwidth.

73 de

Mark Paley--KF8KL--



K1 #117, K2 #250 QRP-L #1899  
<http://wcnet.org/~mpaley>

-----  
Date: Fri, 11 May 2001 10:24:49 -0400  
From: Bill Coleman <aa4lr@arrl.net>  
To: <nkennedy@tcainternet.com>, "Low Power Amateur Radio Discussion" <qrp-  
l@lehigh.edu>  
Subject: [98051] RE: Losses in "450" Ohm WIndow Line  
Message-ID: <1010411102450.KAC21599@gate.iterated.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

On 4/26/01 6:52 PM, Nick Kennedy at nkennedy@tcainternet.com wrote:

>I thought it was interesting that the formula is independent of line  
>length. But I asked Steve about it and he said that's correct.

So 1" of feedline radiates the same than 100 miles of it?

Bill Coleman, AA4LR, PP-ASEL                      Mail: aa4lr@arrl.net  
Quote: "Not within a thousand years will man ever fly!"  
      -- Wilbur Wright, 1901

-----  
Date: Fri, 11 May 2001 10:24:48 -0400  
From: Bill Coleman <aa4lr@arrl.net>  
To: <mightymik2@home.com>, "QRP" <qrp-l@lehigh.edu>  
Subject: [98052] Re: look what came in the mail...  
Message-ID: <1010411102448.KAB21599@gate.iterated.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

On 5/8/01 6:50 PM, Mighty Mik at mightymik2@home.com wrote:

>it's a NorCal toroid kit!

Mine hasn't arrived yet. Bummer....

Bill Coleman, AA4LR, PP-ASEL            Mail: aa4lr@arrl.net  
Quote: "Not within a thousand years will man ever fly!"  
      -- Wilbur Wright, 1901

-----  
Date: Fri, 11 May 2001 09:24:25 -0500  
From: "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>  
To: "'kimbrell@sdf.lonestar.org'" <kimbrell@sdf.lonestar.org>, Low Power Amateur  
Radio Discussion <qrp-l@lehigh.edu>  
Subject: [98053] RE: MANHATTAN--Different Technique -- The "IsoPad"  
Message-ID:  
<E78D8A9D6762D411B5440008C791D4AA04A49AE9@dfwex03.allegiancetelecom.com>  
MIME-Version: 1.0  
Content-Type: text/plain

I'm glad to see you found a source for this handy too, Bob.

Years ago, (in the mid-70's) there was the same kind of "drill  
bit" and it was called the "Iso-Pad". I bought one and used it  
a lot for breadboarding VHF and UHF converters, transmitters  
and stuff like that. Somewhere in all the moving I did around the  
world (from the U.K. to the USA to Brazil and back), I've lost  
that handy tool.

Thanks for the tip.... I'm dialling Mouser now!

Karl K - W8TIF  
McKinney, Texas

> -----Original Message-----  
> From: Robert M. Kimbrell [SMTP:kimbrell@sdf.lonestar.org]  
> Sent: Thursday, May 10, 2001 6:05 PM  
> To: Low Power Amateur Radio Discussion  
> Subject: MANHATTAN--Different Technique  
>  
> I've been teaching the manhattan construction technique to some kids in a  
> ham radio project class. So far we've built a 2 transistor code  
> oscillator which also included a manhattan style key on the same board.  
> We've also built the tick keyer and are just starting on the Charles  
> Kitchen regen. These kids are between 7 and 12 years old and they are  
> becoming very good builders. Punching and gluing the pads is a little  
> tedious (and sometimes messy) for them but they're still having fun.  
> Then, I had an idea while I was searching for circuitboard material

> sources. I came across a tool that cuts away copper to form an island  
> from the existing copper that is already on the board. In other words--no  
> punching or gluing required! The board would be self contained. This  
> particular tool which I've only seen in the Mouser Catalog on page 444  
> (it's called a pad cutter) uses a pilot hole to keep the cut centered but  
> I was thinking of designing a cutter without the pilot hole requirement.  
> The tool would go in the chuck of a drillpress and the circuitboard would  
> be clamped down for a nice clean cut. The soldering technique would have  
> to change a little since the pads would no longer be raised. After I try  
> this I'll let the list know how it worked out. (Or try it yourself--YMMV)  
>  
> Bob Kimbrell AC7BN Kingman, Arizona  
> kimbrell@freeshell.org  
> <http://kimbrell.freeshell.org/>  
> SDF Public Access UNIX System - <http://sdf.lonestar.org>

-----  
Date: Fri, 11 May 2001 14:41:31 +0100  
From: "Larry Wise" <lewise@txwises.com>  
To: "qrp" <qrp-l@lehigh.edu>  
Subject: [98054] Re: 2M collinear vert ant  
Message-ID: <200105111441.JAA14583@aoot.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Gang:

Here are the references that I received in response to my inquiry:

- 1 - ARRL Antenna Book, 1974 printing, 13th ed, pages 247-249.
- 2 - any older edition of the ARRL Antenna Handbook
- 3 - the ARRL book titled "FM and Repeaters"
- 4 - <http://www.repeater-builder.com/rbtip/wa6svt.html>

Stuart K5KVH also described an alternate method of construction  
using copper ground wire, PVC tubing, and copper tubing...Contact  
him for further details....

Again, thanks to all for your responses...

Larry KA5T  
Georgetown, Texas

-----

Date: Fri, 11 May 2001 10:48:01 -0400  
From: "dave dabay" <kd3pc@mindspring.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [98055] Butternut Vertical vs. Force 12  
Message-ID: <001f01c0da29\$6124f460\$3e4e180a@shadow>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I forgot to mention which models I was referring to:

I had a HF-6V Butternut and I am looking at the V-3 and ZR-3. I will most likely use a G5RV dipole for 40-80 at my new QTH.

hope this helps

dave dabay  
kd3pc

-----  
Date: Fri, 11 May 2001 07:53:17 -0700  
From: <schoon@amgt.com>  
To: <qrp-1@Lehigh.EDU>, <Jerry.Lofstead@itb.mckhboc.com>  
Subject: [98056] RE: NorCal toroids arrive  
Message-ID: <c=US%a=%p=American\_Geotech%l=AG-CALCITE-BDC-010511145317Z-977@ag-basalt-pxy.amgt.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Got mine in SOCAL. Now, if someone can kit up a few extra hours so I can build stuff, I'm first in line!!

72

.mark

>-----  
>From: Lofstead, Jerry[SMTP:Jerry.Lofstead@itb.mckhboc.com]  
>Sent: Friday, May 11, 2001 4:44 AM  
>To: Low Power Amateur Radio Discussion  
>Subject: RE: NorCal toroids arrive

>  
>They arrived in north Georgia yesterday. 8-)  
>  
>Thanks NORCAL group  
>  
>Jerry  
>W3CDE  
>  
>  
>

-----  
Date: Fri, 11 May 2001 07:55:39 -0700  
From: <schoon@amgt.com>  
To: <qrp-1@Lehigh.EDU>, <Karl.Kanalz@allegiancetelecom.com>  
Subject: [98057] RE: MANHATTAN--Different Technique -- The "IsoPad"  
Message-ID: <c=US%a=\_%p=American\_Geotech%l=AG-CALCITE-BDC-010511145539Z-978@ag-basalt-pxy.amgt.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

The only drawback I can think of for this technique is the loss of the solid groundplane under the islands.... On second thought, if you goof glueing the islands down, a little acetone can remove the superglue and the island can be moved..... Not to rain on anyones parade!! :)

.mark

>-----  
>From: Kanalz, Karl[SMTP:Karl.Kanalz@allegiancetelecom.com]  
>Sent: Friday, May 11, 2001 7:24 AM  
>To: Low Power Amateur Radio Discussion  
>Subject: RE: MANHATTAN--Different Technique -- The "IsoPad"  
>  
>I'm glad to see you found a source for this handy too, Bob.  
>  
>Years ago, (in the mid-70's) there was the same kind of "drill  
>bit" and it was called the "Iso-Pad". I bought one and used it  
>a lot for breadboarding VHF and UHF converters, transmitters  
>and stuff like that. Somewhere in all the moving I did around the  
>world (from the U.K. to the USA to Brazil and back), I've lost  
>that handy tool.  
>  
>Thanks for the tip.... I'm dialling Mouser now!  
>

>Karl K - W8TIF  
>McKinney, Texas  
>  
>> -----Original Message-----  
>> From: Robert M. Kimbrell [SMTP:kimbrell@sdf.lonestar.org]  
>> Sent: Thursday, May 10, 2001 6:05 PM  
>> To: Low Power Amateur Radio Discussion  
>> Subject: MANHATTAN--Different Technique  
>>  
>> I've been teaching the manhattan construction technique to some kids in a  
>> ham radio project class. So far we've built a 2 transistor code  
>> oscillator which also included a manhattan style key on the same board.  
>> We've also built the tick keyer and are just starting on the Charles  
>> Kitchin regen. These kids are between 7 and 12 years old and they are  
>> becoming very good builders. Punching and gluing the pads is a little  
>> tedious (and sometimes messy) for them but they're still having fun.  
>> Then, I had an idea while I was searching for circuitboard material  
>> sources. I came across a tool that cuts away copper to form an island  
>> from the existing copper that is already on the board. In other words--no  
>> punching or gluing required! The board would be self contained. This  
>> particular tool which I've only seen in the Mouser Catalog on page 444  
>> (it's called a pad cutter) uses a pilot hole to keep the cut centered but  
>> I was thinking of designing a cutter without the pilot hole requirement.  
>> The tool would go in the chuck of a drillpress and the circuitboard would  
>> be clamped down for a nice clean cut. The soldering technique would have  
>> to change a little since the pads would no longer be raised. After I try  
>> this I'll let the list know how it worked out. (Or try it yourself--YMMV)  
>>  
>> Bob Kimbrell AC7BN Kingman, Arizona  
>> kimbrell@freeshell.org  
>> <http://kimbrell.freeshell.org/>  
>> SDF Public Access UNIX System - <http://sdf.lonestar.org>  
>  
>  
>

-----  
Date: Fri, 11 May 2001 11:10:08 -0400  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: <schoon@amgt.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [98058] Re: MANHATTAN--Different Technique -- The "IsoPad"  
Message-ID: <005301c0da2c\$7a7cf680\$6b01a8c0@INSYDENT>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

If you use this tool on double sided board material, you still have the ground on the other side...

Mike

> The only drawback I can think of for this technique is the loss of the  
> solid groundplane under the islands.... On second thought, if you goof  
> glueing the islands down, a little acetone can remove the superglue  
and  
> the island can be moved..... Not to rain on anyones parade!! :)  
>  
> .mark

-----  
Date: Fri, 11 May 2001 08:09:42 -0700 (PDT)  
From: Stan Yarema <bg783@scn.org>  
To: "Davies, Doug A FOR:EX" <Doug.Davies@gems3.gov.bc.ca>  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [98059] Re: This Fourier Transform stuff  
Message-ID: <Pine.SUN.3.96.1010511080401.15354B-1000000@scn>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

An S-9 signal is 50 picowatts or 50 millionths of a microwatt. So, the Pioneer signal is only (!) 47 dB down from S-9.

Stan, K7SY

On Thu, 10 May 2001, Davies, Doug A FOR:EX wrote:

> Very interesting dissertation, Paul. But I just can't get my head around  
> how a signal that is one millionth of one trillionth of a watt can be  
> detected by anything. That's what the strength of the latest transmission  
> from Pioneer 10 was reported to be.  
>  
> Doug VA7DD  
>  
> MailTo:Doug.Davies@gems3.gov.bc.ca  
>  
>

-----  
Date: Fri, 11 May 2001 08:11:38 -0700  
From: Jeff Stai WK6I <jstai@home.com>  
To: kd3pc@mindspring.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [98060] Re: Butternut Vertical vs. Force 12  
Message-ID: <3AFC012A.849937AC@home.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

hi Dave - Champion Radio did a report comparing verticals, including the models you mention. Here is the link:

[http://www.championradio.com/cgi-bin/WebStore/web\\_store.cgi?  
page=publications.html&category=yes&cart\\_id=](http://www.championradio.com/cgi-bin/WebStore/web_store.cgi?page=publications.html&category=yes&cart_id=)

It is the third item down. (They also have a triband yagi report.)

Based on the report, you'll want to take a good look at the F12 antennas...

72/73 - jeff wk6i

dave dabay wrote:

>  
> I forgot to mention which models I was referring to:  
>  
> I had a HF-6V Butternut and I am looking at the V-3 and ZR-3. I will most  
> likely use a G5RV dipole for 40-80 at my new QTH.  
>  
> hope this helps  
>  
> dave dabay  
> kd3pc

--  
jeff stai  
radio stuff: WK6I in DM13  
rocket stuff: NAR #21059 TRA #3356 Level 2 Cert.  
email: jstai@home.com or wk6i@arrl.net  
ROC web page: <http://www.rocstock.org/>  
LDRS web page: <http://www.ldr20.org/>

-----  
Date: Fri, 11 May 2001 09:15:28 -0600 (CST)



From: Bruce Rattray <rattray@gpfn.sk.ca>  
To: Mark Paley <mpaley@wcnet.org>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [98061] Re: solarqrp group  
Message-ID: <Pine.LNX.4.33.0105110914270.30871-100000@neale.gpfn.sk.ca>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hello Mark....just send a blank e-mail to:

QRPSolarPower-subscribe@yahoogroups.com

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272  
K2#2032 A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -  
"QRP! How sweet it is!" oo#148 "I am da man wit "DAH" paddle!"

On Fri, 11 May 2001, Mark Paley wrote:

> I signed up for the solar power group on Yahoo.com but have not figured out  
> how to access it. Any information would be appreciated.

>

> 73 de

> Mark Paley--KF8KL--

> K1 #117, K2 #250 QRP-L #1899

> <http://wcnet.org/~mpaley>

>

>

>

>

>

-----  
Date: Fri, 11 May 2001 08:28:33 -0700

From: <schoon@amgt.com>

To: <qrp-l@Lehigh.EDU>, <myetsko@insydesw.com>

Subject: [98062] RE: MANHATTAN--Different Technique -- The "IsoPad"

Message-ID: <c=US%a=\_%p=American\_Geotech%l=AG-CALCITE-BDC-010511152833Z-979@ag-basalt-pxy.amgt.com>

MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

Well, that's true! I usually use just single sided boards... So, now that you've mentioned double sided boards, why not make the islands out of double sided PCB stock?? Then the islands can be soldered down instead of glued. Might be worth a try!

.mark

>-----

>From: Mike Yettsko[SMTP:myetsko@insydesw.com]

>Sent: Friday, May 11, 2001 8:10 AM

>To: Low Power Amateur Radio Discussion

>Subject: Re: MANHATTAN--Different Technique -- The "IsoPad"

>

>If you use this tool on double sided board material, you still have the  
>ground on the other side...

>

>Mike

>

>> The only drawback I can think of for this technique is the loss of the  
>> solid groundplane under the islands.... On second thought, if you goof  
>> glueing the islands down, a little acetone can remove the superglue  
>and

>> the island can be moved..... Not to rain on anyones parade!! :)

>>

>> .mark

>

>

>

>

>

-----

Date: Fri, 11 May 2001 11:32:45 -0400

From: "AI2Q Alex" <ai2q@adelphia.net>

To: <Karl.Kanalz@allegiancetelecom.com>, "'Low Power Amateur Radio Discussion'"  
<qrp-l@Lehigh.EDU>

Subject: [98063] "Drill Mill" PC board pad info

Message-ID: <000901c0da2f\$a12ef0a0\$df0cf618@alex>

MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

There was also a device put out in the mid-1970s called a Drill Mill. I have one here. it looks like a subminiature hole saw. The guy who used to make these was named Stohler if I recall correctly, and he was a ham. I don't know if these are still available.

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of  
Kanalz, Karl  
Sent: Friday, May 11, 2001 10:24 AM  
To: Low Power Amateur Radio Discussion  
Subject: RE: MANHATTAN--Different Technique -- The "IsoPad"

I'm glad to see you found a source for this handy too, Bob.

Years ago, (in the mid-70's) there was the same kind of "drill  
bit" and it was called the "Iso-Pad".....

-----  
Date: Fri, 11 May 2001 11:33:51 -0400  
From: preacher102677@juno.com  
To: qrp-l@Lehigh.EDU  
Subject: [98064] Closed verse Open...  
Message-ID: <20010511.113843.-152419.2.preacher102677@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

In my efforts to build the "perfect" radio, I've considered making my key  
and phones plug-ins smaller, to the 1/8 in size. The jacks come in both  
a "Closed" and "open" type. What does this mean, and which would be  
better?

LIC,  
G. Brandon Hoyt --"Known far and Wide as the Great Pumpkin."  
Photographer, Philosopher, Preacher, Pirate, Poet.  
DE KG4GVL Clear.

-----  
GET INTERNET ACCESS FROM JUNO!  
Juno offers FREE or PREMIUM Internet access for less!  
Join Juno today! For your FREE software, visit:  
<http://dl.www.juno.com/get/tagj>.

-----  
Date: Fri, 11 May 2001 12:13:34 -0400  
From: "Ed Tanton" <n4xy@att.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [98065] RE: Closed versus Open...  
Message-ID: <CKEGICNFDIMCEKEDCEHFGEHEHBAA.n4xy@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

"closed" vs "open" refers to what the auxiliary contacts provide as a switch upon insertion of the plug.

73 Ed Tanton N4XY <n4xy@arrl.net>

Ed Tanton N4XY  
189 Pioneer Trail  
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

LM: ARRL QCWA AMSAT & INDEXA;  
SEDXC NCDXA GACW QRP-ARCI  
OK-QRP QRP-L #758 K2 (FT) #00057

R-390: Motorola SN: 374;  
R-390-A: Capehart SN: 2241  
51S-1 WE SN: 4389  
HRO-50; HRO-60; & HRO-500  
SP600-VLF SP600-JX-17 SP-600-JX-21

-----  
Date: Fri, 11 May 2001 12:35:53 -0400  
From: "Craig A. Ferris" <cferris@aeronix.com>  
To: qrp-l@Lehigh.EDU  
Subject: [98066] FS/FT IBC boardmaker 912+  
Message-ID: <3AFC14E8.B56C3E8@aeronix.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

IBC boardmaker 912+ tabletop pcb router (like t-tech, lpkf, etc.) in good condition with driver software. \$1000 obo + shipping. Consider trades like TS-850, FT-817, K2, etc. Reply direct.

72,  
Craig NR4E

Melbourne, FL

-----  
Date: Fri, 11 May 2001 12:53:19 -0400  
From: Bruce Muscolino <w6toy@erols.com>  
To: Karl.Kanalz@allegiancetelecom.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [98067] Re: MANHATTAN--Different Technique -- The "IsoPad"  
Message-ID: <3AFC18FF.497171CC@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Karl,

The tool you are referring to was/is made by Vector and was/is used extensively in wire wrap on a copper ground plane. I have one. I don't know whether it is still available. It was useful in the older days, but since I have stopped doing wire wrap I really don't know if it is as popular as it once was!

73

-----  
Date: Fri, 11 May 2001 12:55:33 -0400  
From: Bruce Muscolino <w6toy@erols.com>  
To: schoon@amgt.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [98068] Re: MANHATTAN--Different Technique -- The "IsoPad"  
Message-ID: <3AFC1985.C0E836C9@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Mark,

If you use double sided board you still have the ground plane.

73

-----

Date: Fri, 11 May 2001 13:04:33 -0400  
From: Bruce Muscolino <w6toy@erols.com>  
To: preacher102677@juno.com, qrp-1@lehigh.edu  
Subject: [98069] Re: Closed verse Open...  
Message-ID: <3AFC1BA1.D96FEF09@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

What do you want the phone jack to do? Open circuit jacks are normally used whenever you are not switching a speaker or when you do not need a ground unless the phones are plugged in. Closed circuit jacks are used if you are using the jack to switch a speaker in or out or if you need a ground on the line when the phones are removed.

73

-----  
Date: Fri, 11 May 2001 10:27:34 -0700 (PDT)  
From: Stan Yarema <bg783@scn.org>  
To: qrp-1@lehigh.edu  
Subject: [98070] Pioneer 10 signal  
Message-ID: <Pine.SUN.3.96.1010511100323.13631A-1000000@scn>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I was in error in my post r.e. the pioneer 10 signal.

It is correct that an S-9 signal is 50 picowatts, but that is 77 dB above the Pioneer 10 signal, not 47 dB.

I missread Doug Davies note to be "millionth of a billionth" when it was really "millionth of a TRILLIONTH". That would be 10 to the -18th watt.

When I got to thinking about it a 1 microvolt signal can be heard by even the simplest receiver, such as a Neophyte. And, 1 microvolt is 34 dB below S-9 or 20 femtowatts. A 'millionth of a billionth' would be only 2 S-units down from there. Modern receivers allow us to hear our weak QRP signals from the other side of this planet. The property of Sensitivity probably didn't even apply to Marconi's receiver.

Paul Shuch, N6TX reported in the current issue of QEX that amateur radio-astronomers are hearing signals of 10 to the -23rd watt per square meter of dish. He didn't say how, but that is very low power indeed.

Anyway, I hope I got it right this time, 72 ..... Stan, K7SY

-----  
Date: Fri, 11 May 2001 13:24:14 -0400  
From: Jim Stafford <w4qo@amsat.org>  
To: qrp-l list <qrp-l@lehigh.edu>, qrp@qth.net  
Subject: [98071] FDIM Club/Vendor night  
Message-ID: <3AFC203E.708CB61A@amsat.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Folks,

If you have not signed up for a table for the Vendor night/Club night, let me hear from you. Not that you can't get at table "at the door" but we'd like to know you are coming. I have heard from about 20 so far so it should be a good one. Set up is at 7PM with doors open at 8 PM on Friday, May 18 in the BIG ballroom this year!

Clubs - note that we'd suggest you might want to have some munchies/M&Ms/etc. Heck, vendors too!

Also, if you are entering a building contest, please bring your entry Friday night to the show as the entries will be judged during the day on Saturday and winners announced at the banquet at 7 PM on Saturday.

<http://www.qrparci.org/fdim64.html#vendor>

--  
Jim Stafford, W4Q0@arrl.net 770-993-9500  
President - QRP ARCI <http://www.qrparci.org>  
Chief Op: <http://www.w4qo.com>  
My local QRP club: <http://www.nogaqrp.org>

-----  
Date: Fri, 11 May 2001 13:26:37 -0500  
From: "Brockwell, Stephen E. CECOM SEC FSSE ILEX" <brockwse@fssec.army.mil>  
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>  
Subject: [98072] Homebrew enclosure for K10 keyer  
Message-ID: <F05408425630D4118DEE0000F840B5D485CA92@alrsrv02.fssec.army.mil>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

I found a website about a month ago where a Ham showed the building of a small enclosure for a K10 (I think) keyer. It was built out of PC board and measured about 4 inches by 2 inches with 4 push buttons across the front. Does anyone know where that site is? I've been searching quite a bit but no luck.

Steve KC5TTY  
Elgin, OK

-----  
Date: Fri, 11 May 2001 14:55:09 -0400  
From: "w8diz" <w8diz@fpqrp.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [98073] Re: Homebrew enclosure for K10 keyer  
Message-ID: <003701c0da4b\$e70264b0\$7ecd1b41@cinci.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

One of our own FP members, Dan, N8IE

<http://members.aol.com/shephed/tbook.htm>

72 & "oo's" - Dieter (DIZ) Gentzow - W8DIZ - Loveland, Ohio  
Clermont County - EM79uf - near Cincinnati; 39.218N - 84.305W  
SOC-8 DLQRPAG-1454 ARCI-10226 ARS-781 QRPL-1998 10X-9389 CATT-26  
FP#-1 <http://home.cinci.rr.com/w8diz> & <http://kitsandparts.com>

----- Original Message -----

From: "Brockwell, Stephen E. CECOM SEC FSSE ILEX" <brockwse@fssec.army.mil>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Sent: Friday, May 11, 2001 2:26 PM  
Subject: Homebrew enclosure for K10 keyer

I found a website about a month ago where a Ham showed the building of a small enclosure for a K10 (I think) keyer. It was built out of PC board and measured about 4 inches by 2 inches with 4 push buttons across the front. Does anyone know where that site is? I've been searching quite a bit but no luck.

Steve KC5TTY  
Elgin, OK



-----  
Date: Fri, 11 May 2001 15:24:34 -0400  
From: "Carter Craigie" <ccraigie@email.msn.com>  
To: "QRP-L Members" <qrp-l@Lehigh.EDU>  
Subject: [98074] Appalachian Trail in PA on Sunday, May 13  
Message-ID: <008301c0da50\$0672ce80\$e9190a3f@satellite>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I plan to go for a day-hike on the Appalachian Trail in Pennsylvania this coming Sunday, May 13th.

I will start near Hawk Mountain Sanctuary near Kempton/Eckville, PA.

I expect to start hiking about 9:00 A.M. E.D.S.T. My destination will be Dan's Pulpit.

I hope to be on the air by 11:00 A.M. And I'll probably pack up shop around 2:00.

I will look for a clear spot between 7.040 - 7.045; if nothing there, I will go UP in frequency. If no responses to my CQs, I'll go to 14.060 - 14.063+. If nothing there, it's back to 40 meters.

I will take my (20/40-meter) Elecraft K1 rig running between 3-5 watts; a dipole cut for 40 meters (I'm depending on the K1's internal antenna tuner to help me get out a good signal on 20 meters); and a 2.3 Ahr gel cell. I might take along a solar panel and charge controller if my pack doesn't get too heavy.

I hope to hear lots of activity. I don't copy too fast, so be easy on me please.

Any questions? Use my email address below. Thanks muchly!

73/72,

Carter Craigie N3AO  
EPA QRP Nr. 13  
K2, s/n 678  
K1, s/n 159  
n3ao@arrl.net

-----  
Date: Fri, 11 May 2001 14:51:10 -0400

From: preacher102677@juno.com  
To: qrp-1@lehigh.edu  
Subject: [98075] Re: Closed verse Open...  
Message-ID: <20010511.155746.-152419.5.preacher102677@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

Got it guys!

Thanks! Apparently, the jacks I have are of the closed type, and I know what that means now.

I won't be connecting the third contact.

LIC,

G. Brandon Hoyt --"Known far and Wide as the Great Pumpkin."  
Photographer, Philosopher, Preacher, Pirate, Poet.  
DE KG4GVL Clear.

-----  
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<http://dl.www.juno.com/get/tagj>.

-----  
Date: Fri, 11 May 2001 19:51:28 +0100  
From: "Chuck Adams, K7QO" <k7qo@earthlink.net>  
To: qrp-1@Lehigh.EDU  
Subject: [98076] [MH101] C7 Question  
Message-ID: <5.0.2.1.0.20010511194611.00a74ec0@mail.earthlink.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Gang,

Got a question as to where C7 was and why was it was missing from the VFO section layout.

C7 is used to set the frequency of the VFO if you don't happen to hit the mark when it is assembled. Thus the reason for the list of values.

When we get to the point where you power up the VFO section and check it out, I will address the issue of what value to use for C7 and it will be connected from the pad to L1 and ground and you should have

room to do this when we get to that point the first of next week.

FYI

P.S. Someone mentioned a BNC to two binding posts critter sometime recently. I need to know the source of such a part and part nr. so that I don't have to make one. This for a K1 that I built recently with an ATU. I want to connect it to the vee beam to check out the ATU on my antenna.

Chuck Adams, K7QO CP-60  
Prescott, AZ k7qo@earthlink.net <http://www.qsl.net/k7qo>

TMPS-2001 Jan 12th -> April 15th, 2001 States = 49 DXCC = 15

States Needed AK DXCC --- K XE VE KH6 V73 HI3 FM5 OH3 C6 ZL1 C08 ZS6 EA8 EA7  
PJ ZL2

Moving to Arizona? --- Bring your own water.

-----  
Date: Fri, 11 May 2001 12:52:54 -0700 (PDT)  
From: Craig LaBarge <wb3gck@yahoo.com>  
To: qrp1-mailing-list <qrp-1@lehigh.edu>  
Subject: [98077] K0GXZ - SK  
Message-ID: <20010511195254.31470.qmail@web11108.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

I received a letter yesterday informing me that my old QRP buddy, Steve Nealon K0GXZ, of Crestwood, Missouri, passed away on April 1st. His wife, Rose, informed me of the bad news. Steve was 75.

Steve was an avid QRP'er (QRP ARCI #818) who shared my love of unusual antennas. I first met Steve back in February of 1994 on the 30 meter band. I told him during the QSO that I was using my rainspout for an antenna. He followed up by sending me a letter to tell me the story of how he once loaded up his metal cane and made some QSOs with it. Steve's "cane antenna" was written up in QST (July 1994, page 11)

and QRP Quarterly (January 1995, page 27). (A write-up on my gutter antenna appeared in the same issue of the QRP Quarterly.) Steve once told me he considered loading up his wheel chair as an antenna but, according to Steve, with him in it, it would have been just a big dummy load. I will certainly miss that sense of humor of his. We continued corresponding regularly up until a year or two ago when his health began taking a turn for the worse.

So, it is with great saddness that I report on the passing of this dedicated and enthusiastic QRPer.

73, Craig WB3GCK

-----  
Do You Yahoo!?

Yahoo! Auctions - buy the things you want at great prices  
<http://auctions.yahoo.com/>

-----  
Date: Fri, 11 May 2001 16:32:00 -0400  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: <k7qo@earthlink.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [98078] Re: [MH101] C7 Question  
Message-ID: <004c01c0da59\$71595bc0\$6b01a8c0@INSYDENT>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Radio Shack (at [www.radioshack.com](http://www.radioshack.com) has them, NOT the stores...)

Cat # 940-4804 \$5.58 Make BNC to two 'banana' binding post

They also have

- Male BNC to banana plugs.
- Female BNC to banana jacks
- Female BNC to banana plugs

The 'banana' plugs and jacks are all on standard 3/4" spacing.

Page 251 in the 2001 catalog...

Mike

> P.S. Someone mentioned a BNC to two binding posts critter sometime  
> recently. I need to know the source of such a part and part nr. so  
that I don't have  
> to make one. This for a K1 that I built recently with an ATU. I want  
> to connect it to the vee beam to check out the ATU on my antenna.  
>  
> Chuck Adams, K7Q0 CP-60  
> Prescott, AZ k7qo@earthlink.net <http://www.qsl.net/k7qo>

-----  
Date: Fri, 11 May 2001 16:33:13 -0400  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: <k7qo@earthlink.net>, "Low Power Amateur Radio Discussion" <grp-1@Lehigh.EDU>  
Subject: [98079] Re: [MH101] C7 Question  
Message-ID: <005b01c0da59\$9cb18cc0\$6b01a8c0@INSYDENT>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Sorry... The catalog number is 910-4804 NOT 940----

> Radio Shack (at [www.radioshack.com](http://www.radioshack.com) has them, NOT the stores...)  
>  
> Cat # 940-4804 \$5.58 Make BNC to two 'banana' binding post

Mike

-----  
Date: Fri, 11 May 2001 16:44:09 -0400  
From: "Jim Kortge, K8IQY" <jokortge@prodigy.net>  
To: ai2q@adelphia.net  
Cc: grp-1@lehigh.edu  
Subject: [98080] Re: "Drill Mill" PC board pad info  
Message-ID: <5.0.2.1.1.20010511164113.02180b80@pop.prodigy.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 11:32 AM 5/11/01 -0400, AI2Q, Alex wrote:

>There was also a device put out in the mid-1970s called a Drill Mill. I have  
>one here. it looks like a subminiature hole saw. The guy who used to make  
>these was named Stohler if I recall correctly, and he was a ham. I don't  
>know if these are still available.

Alex,

Sounds alot like a spot weld cutter that is used in the auto  
and aircraft industries during reworks.

Might be available from some of the aircraft tool  
companies, or other tool companies.

72,

Jim, K8IQY

-----  
Date: Fri, 11 May 2001 16:46:04 EDT  
From: n5ib@juno.com  
To: qrp-1@Lehigh.edu  
Subject: [98081] Noise and antenna tuners  
Message-ID: <20010511.154434.19887.7.n5ib@juno.com>

I had an interesting experience on the USS Kidd yesterday. I went aboard  
with the K-2 to operate come 20 m cw and was greeted by a horrendous  
noise level that the noise blanker could not supress sufficiently. They  
were arc welding and side grinding one deck below :^))

Just out of curiosity I switched over to the TenTec 544 to see if its  
blanker could do any better and voila, almost no noise, then I noticed  
the NB wasn't even on. Hmmm, the plot thickens.

TMALSS - the TenTec was being fed through an MFJ ATU and I was feeding  
the K-2 direct from the coax to the end-fed wire. When I switched roles  
so the K-2 saw the ATU and the TenTec was direct it was the K-2 that was  
quiet and the TenTec was noisy. The K-2 has the internal ATU, BTW.

So here's a muddled analysis.....

- 1) The MFJ ATU is essentially a high-pass device (shunt inductance)
- 2) by attenuating the low frequency components of the noise pulses, the  
ATU enabled either receiver to avoid the overload/distortion which

created the higher frequency noise artifacts \*within the Rx\*

3) how come the front end BPFs in the K-2 don't accomplish the same end?  
K-2 was in BATT mode, didn't think to try PERF mode, which is supposed to improve linearity.

what say, ye wiser, though not necessarily grayer, heads?

72

Jim N5IB

Did have 3 nice QSOs BTW, one was 2 x QRP with a list member

-----  
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-----  
Date: Fri, 11 May 2001 17:00:50 -0400

From: "Howard Kraus" <K2UD@adelphia.net>

To: <n5ib@juno.com>

Cc: <qrp-1@Lehigh.EDU>

Subject: [98082] Re: Noise and antenna tuners

Message-ID: <005801c0da5d\$76aae9a0\$73603018@buf.adelphia.net>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

It has been reported by others, notably Doug DeMaw, that an end-fed wire, while being an easy and excellent antenna (my main antenna!) will also lend itself well to receiving common-mode hum in direct conversion receivers. This is diminished, of course, if you use a battery for your power source.

I have not noticed much common-mode hum with direct conversions receivers at my QTH, I am using a simple L network at the base of the antenna(1/2 wave), and a 1/4 wave counterpoise. This is with classic common-mode receivers such as the HW-7, HW-8 and some homebuilt units. My mileage must vary!

72

Howard Kraus, K2UD

-----

Date: Sat, 12 May 2001 01:03:13 +0400  
From: "Oleg Borodin" <master72@lipetsk.ru>  
To: "qrp-l" <qrp-l@lehigh.edu>  
Subject: [98083] New address!!!  
Message-ID: <20010511210509Z12397-293+6864@relay.lipetsk.ru>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=Windows-1251  
Content-Transfer-Encoding: 7bit

Dear OMs!

All who've wrote for me about order a Micro-80 microtransceiver kit during last two days, repeat me again to my new E-Mail: master72@lipetsk.ru  
Log in your address-book my new coordinate, please.  
The best wishes for All there!

72 & 73! de RV3GM/QRP Lipetsk, Russia  
G-QRP#4690 QRP-ARCI#10742 QRP-MASTER#50  
eng. Oleg V. Borodin E-Mail: master72@lipetsk.ru

-----  
Date: Fri, 11 May 2001 21:17:41 +0000 (UTC)  
From: "Robert M. Kimbrell" <kimbrell@sdf.lonestar.org>  
To: AI2Q Alex <ai2q@adelphia.net>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [98084] Re: "Drill Mill" PC board pad info  
Message-ID: <Pine.LNX.4.21.0105112042300.15144-100000@sdf.lonestar.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 11 May 2001, AI2Q Alex wrote:

> There was also a device put out in the mid-1970s called a Drill Mill. I have  
> one here. it looks like a subminiature hole saw. The guy who used to make  
> these was named Stohler if I recall correctly, and he was a ham. I don't  
> know if these are still available.

Well, I found two hams named Stohler in the FCC database. W4BF0 in Florida and KD7AJB in Oregon so I'm sending email to both. G4WIF's idea at [http://www.btinternet.com/~g4wif/q\\_tech11.htm](http://www.btinternet.com/~g4wif/q_tech11.htm) also looks like it does what I had in mind. Today I experimented with some 3/16 inch stainless steel tubing. I cut off a 6 inch length and clamped it in a vise on the drill press with the end pointin up. Then I drilled into it with a bit which was quite a bit larger than the tubing until I got a sharp, round, cupped edge. Then I put this tube in the chuck and was going to try it on the circuit board to see if I needed to grind a notch in the blade or if it



would work without the notch since the copper is so soft. At 6 inches in length, the tube was too wobbly to make a good cut so I cut it down to a length that just protruded beyond the chuck. That made a beautiful cut with just a slight pressure on the handle of the drill press. I was able to easily tin the pad without any solder bridge to the rest of the board. Using that same tube in a handheld drill motor doesn't work well at all. I'd still like to do this with a handheld, non-power tool since I'm working with kids and because there won't always be a drill press where we are working on our projects. I'm thinking of putting a T handle on it and using a stainless steel circle drawing guide to keep it from drifting. The pilot hole guide might still be the way to go though. Thanks to all who have commented so far. It's been a great learning experience!

72, DE AC7BN  
Bob Kimbrell  
Kingman, AZ

-----  
Date: Fri, 11 May 2001 17:19:53 -0400  
From: lenny wintfeld <w2bvh@home.com>  
To: "[Elecrafft]" <elecrafft@qth.net>, Low Power Amateur Radio Discussion <qrp-  
l@Lehigh.EDU>  
Subject: [98085] OT: College physics test  
Message-ID: <3AFC5779.52492BD2@home.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

This is off topic but less so than some. So I only feel mildly guilty posting it (hi).

Lenny W2BVH

> This true story involves a question on a physics exam at the University  
of  
> Copenhagen:  
>  
> "Describe how to determine the height of a skyscraper with a barometer."  
  
> One student replied:  
>  
> "You tie a long piece of string to the neck of the barometer, then lower

> the barometer from the roof of the skyscraper to the ground.  
> The length of the string plus the length of the barometer will equal  
> the height of the building."  
>  
> This highly original answer so incensed the examiner that the student  
was  
> failed immediately. He appealed on the grounds that his answer was  
> indisputably correct, and the university appointed an independent  
arbiter  
> to decide the case. The arbiter judged that the answer was indeed  
correct,  
> but it did not display any noticeable knowledge of physics.  
>  
> To resolve the problem it was decided to call the student in and allow  
him  
> six minutes in which to provide a verbal answer which showed at least a  
> minimal familiarity with the basic principles of physics.  
>  
> For five minutes the student sat in silence, forehead creased in  
thought.  
>  
> The arbiter reminded him that time was running out, to which the student  
  
> replied that he had several extremely relevant answers, but couldn't  
make  
> up his mind which one to use.  
>  
> On being advised to hurry up, the student replied as follows:  
>  
> "First, you could take the barometer up to the roof of the skyscraper,  
drop  
> it over the edge, and measure the time it takes to reach the ground. The  
  
> height of the building can then be worked out from the formula:  $H = 0.5g$   
x  
>  $t^2$ . But bad luck for the barometer.  
>  
> "Or if the sun is shining you could measure the height of the barometer,  
  
> then set it on end and measure the length of its shadow. Then you  
measure  
> the length of the skyscraper's shadow, and thereafter it is simple  
matter  
of  
> proportional arithmetic to work out the height of the skyscraper.  
>  
> "But if you wanted to be highly scientific about it, you could tie a  
short

> piece of string to the barometer and swing it like a pendulum, first at  
> ground level and then on the roof of the skyscraper. The height is  
worked  
> out by the difference in the gravitational restoring force:  $T = 2 \pi \sqrt{l/g}$ .  
>  
> "Or if the skyscraper has an outside emergency staircase, it would be  
> easier to walk up it and mark off the height of the skyscraper in  
barometer  
> lengths, then add them up.  
>  
> "If you merely wanted to be boring and orthodox about it, of course, you  
  
> could use the barometer to measure the air pressure on the roof of the  
> skyscraper and on the ground, and convert the difference in millibars  
into  
> feet to give the height of the building.  
>  
> "But since we are constantly being exhorted to exercise independence of  
> mind and apply scientific methods, undoubtedly the best way would be to  
> knock on the janitor's door and say to him, 'If you'd like a nice new  
> barometer, I'll give you this one if you'll tell me the height of  
> this skyscraper.'"  
>  
> The student was Niels Bohr, the only Dane to win the Nobel Prize for  
> physics.

-----  
Date: Fri, 11 May 2001 17:18:37 -0400  
From: Tom & Roxanne <zikot@erie.net>  
To: bg783@scn.org, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [98086] Re: Pioneer 10 signal  
Message-ID: <5.0.2.1.0.20010511171821.00a30ec0@erie.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Does anyone know what frequency Pioneer 10 is on?

At 10:27 AM 5/11/01 -0700, Stan Yarema wrote:

>I was in error in my post r.e. the pioneer 10 signal.  
> It is correct that an S-9 signal is 50 picowatts, but that is 77 dB  
>above the Pioneer 10 signal, not 47 dB.  
> I missread Doug Davies note to be "millionth of a billionth" when it  
>was really "millionth of a TRILLIONTH". That would be 10 to the -18th  
>watt.

> When I got to thinking about it a 1 microvolt signal can be heard by  
> even the simplest receiver, such as a Neophyte. And, 1 microvolt is 34 dB  
> below S-9 or 20 femtowatts. A 'millionth of a billionth' would be  
> only 2 S-units down from there. Modern receivers allow us to hear our  
> weak QRP signals from the other side of this planet. The property of  
> Sensitivity probably didn't even apply to Marconi's receiver.  
> Paul Shuch, N6TX reported in the current issue of QEX that amateur  
> radio-astronomers are hearing signals of 10 to the -23rd watt per square  
> meter of dish. He didn't say how, but that is very low power indeed.  
>  
> Anyway, I hope I got it right this time, 72 ..... Stan, K7SY

Tom & Roxanne

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Date: Fri, 11 May 2001 15:35:31 -0600 (MDT)  
From: "Karl F. Larsen" <k5di@zianet.com>  
To: dave dabay <kd3pc@mindspring.com>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [98087] Re: Butternut Vertical vs. Force 12  
Message-ID: <Pine.LNX.4.33.0105111533390.1300-100000@localhost.localdomain>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

That butternut is what I use and it's a full 1/4 wave at 40 meters. With a set of tuned radials you have about the best there is. Mine is on the roof

On Fri, 11 May 2001, dave dabay wrote:

>  
>  
> I forgot to mention which models I was referring to:  
>  
> I had a HF-6V Butternut and I am looking at the V-3 and ZR-3. I will most  
> likely use a G5RV dipole for 40-80 at my new QTH.  
>  
> hope this helps  
>  
> dave dabay  
> kd3pc  
>  
>

--  
Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

-----  
Date: Fri, 11 May 2001 17:47:42 EDT  
From: n5ib@juno.com  
To: qrp-l@Lehigh.edu  
Subject: [98088] capacitor tempco "SL" ??  
Message-ID: <20010511.164626.19887.9.n5ib@juno.com>

I have a bag of ceramic disk capacitors whose temperature coefficient classification is "SL" but can't find a specification for that class - how are they compared to C0G or NP0 ?

72  
Jim N5IB

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<http://dl.www.juno.com/get/tagj>.

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Date: Fri, 11 May 2001 15:53:33 -0700 (PDT)  
From: Jeff <fantbb@yahoo.com>  
To: qrp qrp <qrp-l@lehigh.edu>  
Subject: [98089] Re: Noise and antenna tuners  
Message-ID: <20010511225333.86928.qmail@web10003.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

--- n5ib@juno.com wrote:

>  
> TMALSS - the TenTec was being fed through an MFJ ATU and I was  
> feeding  
> the K-2 direct from the coax to the end-fed wire. When I switched  
> roles  
> so the K-2 saw the ATU and the TenTec was direct it was the K-2 that  
> was  
> quiet and the TenTec was noisy. The K-2 has the internal ATU, BTW.

Here's another viewpoint. There might have been enough loss in the tuner or the coax or both to attenuate the noise so that it fell below the IF filter's noise floor. The kind of noise you mentioned is broad

spectrum and I can't imagine a antenna tuner could filter out all of the type of noise that you mentioned.

Another thought were they both using the same antenna?

73!

Jeff

=====

AB6MB

NorCal QRP Club #65, QRP-L #1780, ARCI 10071

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End of QRP-L Digest 2186

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